



Adapting to climate change in The Netherlands: An inventory of climate adaptation options and ranking of alternatives

Author(s): De Bruin K, Dellink R, Ruijs A, Bolwidt L, Van Buuren A, Graveland J, De Groot R, Kuikman P, Reinhard S, Roetter R
Year: 2009
Journal: Climatic Change. 95 (1): 23-45

Abstract:

In many countries around the world impacts of climate change are assessed and adaptation options identified. We describe an approach for a qualitative and quantitative assessment of adaptation options to respond to climate change in the Netherlands. The study introduces an inventory and ranking of adaptation options based on stakeholder analysis and expert judgement, and presents some estimates of incremental costs and benefits. The qualitative assessment focuses on ranking and prioritisation of adaptation options. Options are selected and identified and discussed by stakeholders on the basis of a sectoral approach, and assessed with respect to their importance, urgency and other characteristics by experts. The preliminary quantitative assessment identifies incremental costs and benefits of adaptation options. Priority ranking based on a weighted sum of criteria reveals that in the Netherlands integrated nature and water management and risk based policies rank high, followed by policies aiming at 'climate proof' housing and infrastructure.

Source: Ask your librarian to help locate this item.

Resource Description

Exposure :

weather or climate related pathway by which climate change affects health

Food/Water Quality, Food/Water Security, Precipitation, Sea Level Rise, Temperature

Food/Water Quality: Biotoxin/Algal Bloom

Temperature: Extreme Heat, Fluctuations

Geographic Feature:

resource focuses on specific type of geography

None or Unspecified

Geographic Location:

resource focuses on specific location

Non-United States

Climate Change and Human Health Literature Portal

Non-United States: Europe

European Region/Country: European Country

Other European Country : The Netherlands

Health Co-Benefit/Co-Harm (Adaption/Mitigation): 

specification of beneficial or harmful impacts to health resulting from efforts to reduce or cope with greenhouse gases

A focus of content

Health Impact: 

specification of health effect or disease related to climate change exposure

General Health Impact, Infectious Disease

Infectious Disease: General Infectious Disease

Mitigation/Adaptation: 

mitigation or adaptation strategy is a focus of resource

Adaptation, Mitigation

Model/Methodology: 

type of model used or methodology development is a focus of resource

Cost/Economic, Exposure Change Prediction

Resource Type: 

format or standard characteristic of resource

Policy/Opinion, Research Article

Resilience: 

capacity of an individual, community, or institution to dynamically and effectively respond or adapt to shifting climate impact circumstances while continuing to function

A focus of content

Timescale: 

time period studied

Medium-Term (10-50 years)

Vulnerability/Impact Assessment: 

resource focus on process of identifying, quantifying, and prioritizing vulnerabilities in a system

A focus of content